

# TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS

## PCT

### RAPPORT PRÉLIMINAIRE INTERNATIONAL SUR LA BREVETABILITÉ

(chapitre I du Traité de coopération en matière de brevets)

(règle 44bis du PCT)

Référence du dossier du déposant ou du mandataire AUTOEXTIN	<b>POUR SUITE À DONNER</b> Voir le point 4 ci-dessous	
Demande internationale no. PCT/FR2005/050034	Date du dépôt international ( <i>jour/mois/année</i> ) 20 January 2005 (20.01.2005)	Date de priorité ( <i>jour/mois/année</i> ) 27 January 2004 (27.01.2004)
Classification internationale des brevets (8 <sup>e</sup> édition, sauf indication d'une #dition ant#rieure) Voir les informations pertinentes dans le formulaire PCT/ISA/237		
Déposant SNPE Matériaux Energétiques		

1. Le présent rapport préliminaire international sur la brevetabilité (chapitre I) est établi par le Bureau international au nom de l'administration chargée de la recherche internationale selon la règle 44bis.1.a).

2. Ce RAPPORT comprend un total de 5 feuilles, y compris la présente feuille de couverture.

Dans les feuilles jointes, toute référence à l'opinion écrite de l'administration chargée de la recherche internationale doit être entendue, à la place, comme une référence au rapport préliminaire international sur la brevetabilité (chapitre I).

3. Le présent rapport contient des indications relatives aux points suivants :

- |                                     |               |   |
|-------------------------------------|---------------|---|
| <input checked="" type="checkbox"/> | Cadre n° I    | Base de l'opinion   |
| <input type="checkbox"/>            | Cadre n° II   | Priorité  |
| <input type="checkbox"/>            | Cadre n° III  | Absence de formulation d'opinion quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle  |
| <input type="checkbox"/>            | Cadre n° IV   | Absence d'unité de l'invention  |
| <input checked="" type="checkbox"/> | Cadre n° V    | Déclaration motivée selon l'article 35.2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration |
| <input type="checkbox"/>            | Cadre n° VI   | Certains documents cités  |
| <input type="checkbox"/>            | Cadre n° VII  | Certaines irrégularités relevées dans la demande internationale   |
| <input type="checkbox"/>            | Cadre n° VIII | Certaines observations relatives à la demande internationale  |

4. Le Bureau international communiquera le présent rapport aux offices désignés conformément aux règles 44bis.3.c) et 93bis.1 mais pas avant l'expiration du délai de 30 mois à compter de la date de priorité (règle 44bis.2), sauf si le déposant a présenté une requête expresse à cet égard en vertu de l'article 23.2).

	Date d'établissement du présent rapport 03 October 2006 (03.10.2006)
Bureau international de l'OMPI 34, chemin des Colombettes 1211 Geneva 20, Switzerland no de télécopieur +41 22 338 82 70	Fonctionnaire autorisé  <b>Beate Giffo-Schmitt</b> e-mail: pt03@wipo.int

# PATENT COOPERATION TREATY

TRANSLATION

From the  
INTERNATIONAL SEARCHING AUTHORITY

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year) **See form PCT/ISA/210**

Applicant's or agent's file reference

**AUTOEXTIN**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/FR2005/050034**

International filing date (day/month/year)

**20.01.2005**

Priority date (day/month/year)

**27.01.2004**

International Patent Classification (IPC) or both national classification and IPC

**F15B15/19**

Applicant

**SNPE Matériaux Energétiques**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2005/050034

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2005/050034

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1-15</u>	YES
	Claims _____	NO
Inventive step (IS)	Claims <u>1-15</u>	YES
	Claims _____	NO
Industrial applicability (IA)	Claims <u>1-15</u>	YES
	Claims _____	NO

2. Citations and explanations:

1 Reference is made to the following document:

D1: WO 02/088551 A (PERUT CHRISTIAN; ROLLER DENIS  
(FR); POUDRES & EXPLOSIFS STE NALE (FR))  
7 November 2002 (2002-11-07)

2 Document D1, which is considered to represent the most relevant prior art, describes (the references between parentheses apply to this document) a pyrotechnic microsystem, from which the subject matter of independent claim 1 differs in that the same pyrotechnic material is deposited so as to cover both initiation zones, said coating, produced on the substrate, having a thickness that is small enough for the initiation of the pyrotechnic material in one initiation zone to remain localized and not to propagate as far as the other initiation zone, but sufficient to generate a defined quantity of gas.

2.1 The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem to be solved by the present invention may be considered to be how to control the amount of

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2005/050034

Box No. V

Reasoned statement under Rule 43bis.1(a)(I) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

pyrotechnic material burnt during the operation.

2.2 The solution to this problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)) since it is not obvious to a person skilled in the art to modify the microsystem of document D1 as claimed.

2.3 Claims 2-11 are dependent on claim 1 and thus also comply, as such, with the requirements of novelty and inventive step of the PCT.

3 Method claim 12 corresponds to device claim 1 and, for the same reasons, its subject matter is also novel (PCT Article 33(2)) and involves an inventive step (PCT Article 33(3)).

3.1 Claims 13-15 are dependent on claim 12 and thus also comply, as such, with the requirements of novelty and inventive step of the PCT.